



Aziz Gaaya

Computer Engineering Student – Data Science & Artificial Intelligence
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PROFILE

Computer engineering student specializing in Data Science, Machine Learning, and AI systems. Skilled in Python-based analytics, model development, and explainability tools. Passionate about building interpretable and efficient ML models that transform data into actionable insights. Adaptable, analytical, and experienced in agile environments.

ACADEMIC BACKGROUND

Institut Supérieur d'Électronique de Paris (ISEP) – École d'Ingénieurs du Numérique
Exchange Program (Engineering Cycle) – Data Science & AI Track

Paris, France
Sep 2025 – Jun 2026

Private Higher School of Engineering and Technology (ESPRIT)
Computer Engineering Program – Artificial Intelligence Major

Ariana, Tunisia
Sep 2023 – Jun 2026

Preparatory Institute for Engineering Studies El Manar (IPEIEM)
Preparatory Diploma in Mathematics and Physics

Tunis, Tunisia
Sep 2021 – Jun 2023

TECHNICAL SKILLS

Languages : Python, Java, SQL, R, C++, JavaScript

Data Science & ML Libraries : NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn, Jupyter

AI & NLP Tools : LLMs, RAG, Hugging Face, OpenAI API, LangChain, Transformers, NLTK, SpaCy, SHAP

Databases & Cloud : MySQL, MongoDB, Firebase, Docker, Azure, REST APIs

Other : Git, Agile/Scrum, Data Visualization, Statistics, Explainable AI, Machine Learning Lifecycle

PROFESSIONAL EXPERIENCE

AI Development Intern – ESPRIT (StreamPost AI) | Python, AssemblyAI, ElevenLabs

Jul 2025 – Sep 2025

- Developed an AI-powered platform for real-time social media monitoring and publishing.
- Implemented intelligent scraping with LLMs to auto-select relevant links and generate multi-format posts.
- Built live transcription and “hot moments” detection, with instant GIF/JPG capture and MongoDB storage.
- Automated social publishing workflows with integrations for Twitter, Instagram, and TikTok using SSE pipelines.

Machine Learning Intern – STAR Assurance | Python, Scikit-learn, Pandas, SQL

Jul 2024 – Aug 2024

- Developed predictive models to identify potential insurance claims anomalies and improve risk scoring.
- Automated data preprocessing pipelines and feature extraction from internal databases.
- Conducted exploratory data analysis and created interactive dashboards for internal teams.
- Collaborated on a confidential project focused on optimizing decision-making through ML-driven insights.

Data Systems Intern – FinConnect Solutions | Spring Boot, SQL, Angular, MySQL

Jun 2023 – Jul 2023

- Developed analytical modules to monitor performance metrics and client activity.
- Designed dashboards and automated reports for internal analytics and KPI visualization.
- Improved database query performance and supported data integrity validation across departments.

PROJECTS

EMG Signal Classification using LightGBM & SHAP | Python, LightGBM, SHAP, NumPy

Sep 2025 – Jan 2026

- Built a complete ML pipeline for EMG signal classification (Healthy vs Myopathy) achieving 92% accuracy.
- Implemented signal preprocessing (Butterworth filters, Welch PSD) and extracted 16+ statistical features.
- Applied SHAP for explainability — analyzing global and local feature importance and interactions.
- Designed future improvements : feature selection, composite indices, and k-fold validation.

Kiddo AI | Python, LLM, Coqui XTTS, GenAI

Jan 2025 – May 2025

- Created an AI-powered educational assistant combining NLP and speech synthesis for personalized tutoring.
- Used emotion detection models to analyze user engagement via voice and image data.
- Converted 40+ educational documents into structured datasets for question-answer generation.
- Analyzed engagement data from 100+ users to improve interaction quality by 15% .

LEADERSHIP AND COMMUNITY INVOLVEMENT

AIESEC Manouba : Vice President (2024), Team Leader (2023) | **Rotaract Manar** : Internal Committee Chair (2022)

LANGUAGES & SOFT SKILLS

Languages : Arabic (Native), French (C1), English (C1)

Soft Skills : Analytical Thinking, Problem Solving, Teamwork, Leadership, Communication